

9017  
Sheridan

(1653)



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/509,391

DATE: 04/29/2002  
TIME: 14:22:02

Input Set : A:\000648.txt  
Output Set: N:\CRF3\04292002\I509391.raw

ENTERED

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3 <110> APPLICANT: KRIJGSVELD, Jeroen
4 ZAAT, Sebastianus Antonius Johannes
5 DANKERT, Jacob
6 KUIJPERS, Alma Johanna
7 ENGBERS, Gerardus Henricus Maria
8 FEIJEN, Jan
10 <120> TITLE OF INVENTION: Isolated and Recombinant Antimicrobial Peptides
11 Thrombocidin-1 (TC-1) and Thrombocidin-2 (TC-2)
12 or Variants Thereof
14 <130> FILE REFERENCE: 702 000648
16 <140> CURRENT APPLICATION NUMBER: 09/509,391
17 <141> CURRENT FILING DATE: 2000-07-07
19 <150> PRIOR APPLICATION NUMBER: EP 97202934.2
20 <151> PRIOR FILING DATE: 1997-09-25
22 <150> PRIOR APPLICATION NUMBER: EP 98201411.0
23 <151> PRIOR FILING DATE: 1998-05-01
25 <160> NUMBER OF SEQ ID NOS: 18
27 <170> SOFTWARE: MS Word 97 SR-2
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 85
31 <212> TYPE: PRT
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <223> OTHER INFORMATION: CTAP-III (connective tissue activating peptide)
37 <400> SEQUENCE: 1
38 Asn Leu Ala Lys Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala
39 1 5 10 15
40 Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro Lys
41 20 25 30
42 Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln
43 35 40 45
44 Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu Asp
45 50 55 60
46 Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala Gly
47 65 70 75 80
48 Asp Glu Ser Ala Asp
49 85
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 4
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapiens
56 <220> FEATURE:
57 <223> OTHER INFORMATION: N-terminus of TC-1a and TC-1b thrombocidins

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60 Ala Glu Leu Arg
61   1
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 68
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapiens
68 <220> FEATURE:
69 <223> OTHER INFORMATION: TC-1* thrombocidin variant
71 <400> SEQUENCE: 3
72 Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro
73   1           5           10          15
74 Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn
75     20          25          30
76 Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu
77     35          40          45
78 Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala
79     50          55          60
80 Gly Asp Glu Ser
81   65
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 5
85 <212> TYPE: PRT
86 <213> ORGANISM: Homo sapiens
88 <220> FEATURE:
89 <223> OTHER INFORMATION: N-terminus of TC-1d thrombocidin
91 <400> SEQUENCE: 4
92 Tyr Ala Glu Leu Arg
93   1           5
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 5
97 <212> TYPE: PRT
98 <213> ORGANISM: Homo sapiens
100 <220> FEATURE:
101 <223> OTHER INFORMATION: C-terminus of TC-1d thrombocidin
103 <400> SEQUENCE: 5
104 Ala Gly Asp Glu Ser
105   1           5
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 83
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
112 <220> FEATURE:
113 <223> OTHER INFORMATION: TC-2 thrombocidin
115 <400> SEQUENCE: 6
116 Asn Leu Ala Lys Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala
117   1           5           10          15
118 Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro Lys
119     20          25          30

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120 Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln  
121 35 40 45  
122 Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu Asp  
123 50 55 60  
124 Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala Gly  
125 65 70 75 80  
126 Asp Glu Ser  
128 <210> SEQ ID NO: 7  
129 <211> LENGTH: 34  
130 <212> TYPE: DNA  
131 <213> ORGANISM: Homo sapiens  
133 <220> FEATURE:  
134 <223> OTHER INFORMATION: Forward primer  
136 <220> FEATURE:  
137 <221> NAME/KEY: misc\_feature  
138 <222> LOCATION: (5)...(10)  
139 <223> OTHER INFORMATION: BamHI restriction site  
141 <400> SEQUENCE: 7  
142 tataggatcc atgagctca gacttgatac cacc  
144 <210> SEQ ID NO: 8  
145 <211> LENGTH: 38  
146 <212> TYPE: DNA  
147 <213> ORGANISM: Homo sapiens  
149 <220> FEATURE:  
150 <223> OTHER INFORMATION: Reverse primer  
152 <220> FEATURE:  
153 <221> NAME/KEY: misc\_feature  
154 <222> LOCATION: (5)...(10)  
155 <223> OTHER INFORMATION: BamHI restriction site  
157 <220> FEATURE:  
158 <221> NAME/KEY: terminator  
159 <222> LOCATION: (11)...(13)  
160 <223> OTHER INFORMATION: Stop sequence  
162 <400> SEQUENCE: 8  
163 tataggatcc tcaatcagca gattcatcac ctgccaat  
165 <210> SEQ ID NO: 9  
166 <211> LENGTH: 33  
167 <212> TYPE: DNA  
168 <213> ORGANISM: Homo sapiens  
170 <220> FEATURE:  
171 <223> OTHER INFORMATION: Forward primer for CTAP-III and TC-2  
173 <220> FEATURE:  
174 <221> NAME/KEY: misc\_feature  
175 <222> LOCATION: (7)...(12)  
176 <223> OTHER INFORMATION: NdeI restriction site  
178 <400> SEQUENCE: 9  
179 gtgttaacata tgaacttggc gaaaggcaaa gag  
181 <210> SEQ ID NO: 10  
182 <211> LENGTH: 33

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183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapiens
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Forward primer for NAP-2 and TC-1*
189 <220> FEATURE:
190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (7)...(12)
192 <223> OTHER INFORMATION: NdeI restriction site
194 <400> SEQUENCE: 10
195 gtgttaacata tgtatgctga actccgctgc atg 33
197 <210> SEQ ID NO: 11
198 <211> LENGTH: 36
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Forward primer for TC-1
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: (7)...(12)
208 <223> OTHER INFORMATION: NdeI restriction site
210 <400> SEQUENCE: 11
211 gtgttaacata tgtatctccg ctgcatttgtt ataaaag 36
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 68
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
218 <220> FEATURE:
219 <223> OTHER INFORMATION: TC-1 thrombocidin
221 <400> SEQUENCE: 12
222 Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro Lys Asn
223 1 5 10 15
224 Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln Val
225 20 25 30
226 Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu Asp Pro
227 35 40 45
228 Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala Gly Asp
229 50 55 60
230 Glu Ser Ala Asp
231 65
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 70
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <220> FEATURE:
239 <223> OTHER INFORMATION: NAP-2 (neutrophil activating peptide)
241 <400> SEQUENCE: 13
242 Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro
243 1 5 10 15
244 Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn

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245          20          25          30
246 Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu
247          35          40          45
248 Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala
249          50          55          60
250 Gly Asp Glu Ser Ala Asp
251 65          70
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 69
255 <212> TYPE: PRT
256 <213> ORGANISM: Escherichia coli
258 <220> FEATURE:
259 <223> OTHER INFORMATION: rMTC-1* (TC-1* carrying an additional N-terminal methionine)
261 <400> SEQUENCE: 14
262 Met Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His
263   1          5          10          15
264 Pro Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys
265   20          25          30
266 Asn Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys
267   35          40          45
268 Leu Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu
269   50          55          60
270 Ala Gly Asp Glu Ser
271 65
273 <210> SEQ ID NO: 15
274 <211> LENGTH: 84
275 <212> TYPE: PRT
276 <213> ORGANISM: Escherichia coli
278 <220> FEATURE:
279 <223> OTHER INFORMATION: rMTC-2 (TC-2 carrying an additional N-terminal methionine)
281 <400> SEQUENCE: 15
282 Met Asn Leu Ala Lys Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr
283   1          5          10          15
284 Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro
285   20          25          30
286 Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn
287   35          40          45
288 Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu
289   50          55          60
290 Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala
291   65          70          75          80
292 Gly Asp Glu Ser
294 <210> SEQ ID NO: 16
295 <211> LENGTH: 91
296 <212> TYPE: PRT
297 <213> ORGANISM: Escherichia coli
299 <220> FEATURE:
300 <223> OTHER INFORMATION: rYTC-1 (TC-1 with an N-terminal His-tag, plus a tyrosine
residue)
302 <220> FEATURE:

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/509,391

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TIME: 14:22:03

Input Set : A:\000648.txt

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